

ABSTRACT

Hydrophobic silica fine powder is produced by
5 pyrolyzing a silane compound to form a silica fine powder
and hydrophobizing the silica fine powder with an
organohalosilane in a fluidization vessel. Hydrophobized
silica fine powder which flies out of the fluidization
vessel is collected with a cyclone and bag filter which are
10 held at a temperature of 100-500°C. An apparatus for
carrying out the process is also provided. Under simple
controlled conditions that involve holding the cyclone and
bag filter for recovering fugitive silica from the
fluidization vessel to temperatures of 100-500°C, the method
15 and apparatus are able to recover essentially 100% of
fugitive silica, thus increasing yield of the product and
alleviating the burden on waste gas treatment.